## Piedmont Technical College program explores cybersecurity

– at Star Trek 3-D chess, you just might be a cybersecurity professional.

rity work is that the playing

"It can be intensive," he

Jack Koziol recently noted that skills in the cybersecurity

Job postings for cybersecurity professionals rose by an fill them. The need is expected who are up to the challenge.

that is programmed by a pro-sider taking the exam.

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puters play a critical role. "A defined as a non-malicious daunted by the amount of potential to wreak criminal ing and malware by using One challenge in cybersecubuy into a concept known as of evaluating its security, basi-'authentication by presenta- cally using their skills with field is constantly changing, tion.' When you log into an good rather than criminal and not just in a binary way. account, you present a user- intent. That can make training and name and password, and the certification, like a Klingon assumption is that you are the encourages degree programs Bird of Prey, a moving target. only person who knows that in cybersecurity to include an Piedmont Technical College information. The 'presenta- ethics component because we (PTC) Computer Technology tion' goes towards verifying are basically giving you the Instructor Henry Ecker says the identity of the online entithat people interested in the ty. The problem with using the profession need to be good at same username and password time management and willing for every account is that if to constantly learn more to someone obtains that informakeep abreast of rapid techno- tion to gain access to one ous and comes with reams of logical expansion and innova- account, they now have access to all."

One development poised to said. Employment for people make a powerful impact on the qualified in cybersecurity is industry right now is quantum strong, but even the compa- computing, which employs the own in terms of the amount of nies doing the hiring can be tiniest, atomic-scale spin tranchallenged to refine their job sistors to simultaneously descriptions. "Not everyone encode data in multiple states knows what they need. So it's or levels (qubits versus bits). a challenge to get the right If you could visualize it in the people in the right positions. abstract, it might look kind of That has always been the prob- like 3-D chess — on steroids. lem with computer technolo- Greatly expanding a computer's capacity and speed, quan-The challenge to stay cur- tum computing on a mass rent is real. Industry author scale, many experts say, remains far in the future.

"It solves so many problems field have about a two-year significantly faster than binahalf-life. "So everything I ry computing. That can disrupt know in 2019, if I could know everything now in place," everything there is to know, Ecker said. "New development (only) half of it would be use- is all over the place. There are ful in 2021," he said in an so many ways to solve problems, and everyone is trying to find their own way."

Ecker noted that the cyberestimated 7 percent last year. security concentration pro-Currently there are approxi- gram covers many topics on mately 2 million unfilled the Certified Ethical Hacker cybersecurity jobs in the (CEH) exam, a professional United States, yet there are not certification that can qualify enough qualified applicants to those who pass for job titles like information security anaonly to grow, to an estimated lyst, cybersecurity analyst and 3.5 million by 2021. So the security engineer. Part of the demand is robust for those coursework is taught using the exam's preparatory material, "Every single thing that we and Ecker says that the most do runs on a program. All of ambitious students may con-

lot of what we do when we person who penetrates a comsecure something online is we puter network for the purpose

U.S. government "The keys to the kingdom," he said. "You need to have an understanding of the consequences and impacts of your actions."

The PTC program is rigorcontent. Three thick books cover content over two semesters; one is a textbook, and two are lab books. "Security tends to be in a league of its content that is covered," he

material covered and the knowledge that he may never be finished learning about it.

very fast-moving field," Amey said. "You are never done learning. That is something I enjoy. Learning something new is kind of what we should all strive to do every day."

Computer technology students in the cybersecurity concentration emerge with a new understanding of the enormous scope their efforts can influence. According to an April 4, 2019, article in Forbes magazine, within the Christopher Amey, a student only as safe as the least-pro- emphasized who will finish with the pro- tected device connected to it," Employees can leave their www.ptc.edu/computer.

If you can play — and win cations, and even cars, com- a year. An "ethical hacker" is gram this summer, is not at all the article states. Clearly, the companies vulnerable to hack-

June 29, 2019

ment. I am above and beyond external sources. excited to take these classes with these instructors."

next couple of years, 27 bil- pany connected to the internet defense against potentially lion devices will be connected shares in the responsibility to crippling losses. Shields up. around the world. "Any maintain good information device, on any network, is hygiene. Training cannot be Piedmont Tech's computer

cyber-havoc in a 5G world is company devices on unsecured networks (including "I love the courses. I think home, coffeehouse, or airport "The technology changes on the curriculum is perfect, and Wi-Fi), connecting infected the fly. What's secure today in the professors are very devices to the company net-just 32 hours can become responsive," Amey said. "The work, storing company data on completely obsolete. It's a material towards the end, like unsecured devices such as computer forensics, is really thumb drives and laptops, hands-on. That is what I think using the same username and makes the program that much password for multiple better than others. You are see- accounts, and clicking suspiing how to do things for your- cious links or opening email self in a controlled environ- attachments from unknown

> The global cost of a data breach increased 6.4 percent Experts agree that keeping in 2018, to \$3.86 million, data systems safe will take a according to IBM's Annual village, and that means every- Cost of Data Breach Study. one, not just IT workers. Cybersecurity professionals Every employee of every com- are a company's first line of

For more information about enough. technology program, visit



CHECK PRESENTATION - Sons of the South Motorcycle Club of Clinton recently raised over \$6,000 for Hospice of Laurens County's bereavement day camp, Jaime's Tree House. Pictured are Jamie Holliday, Sons of the South member,



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